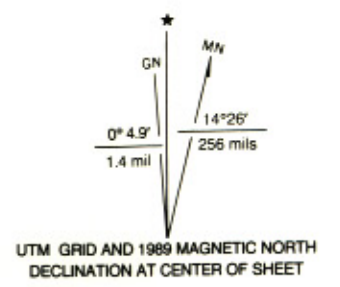
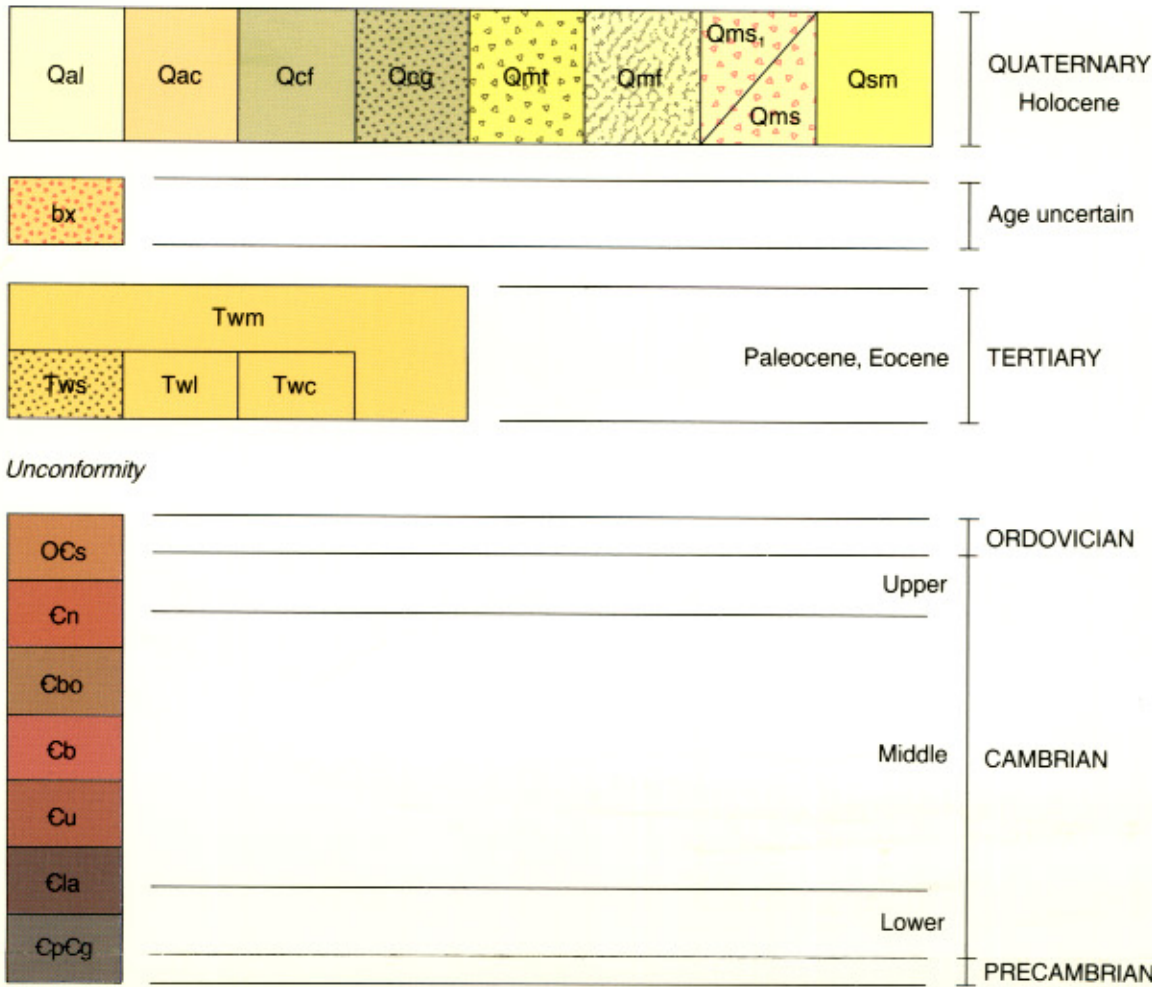




PROVISIONAL GEOLOGIC MAP
OF THE BOULDER MOUNTAIN QUADRANGLE,
CACHE COUNTY, UTAH
by
Andrew R. Mork
1990

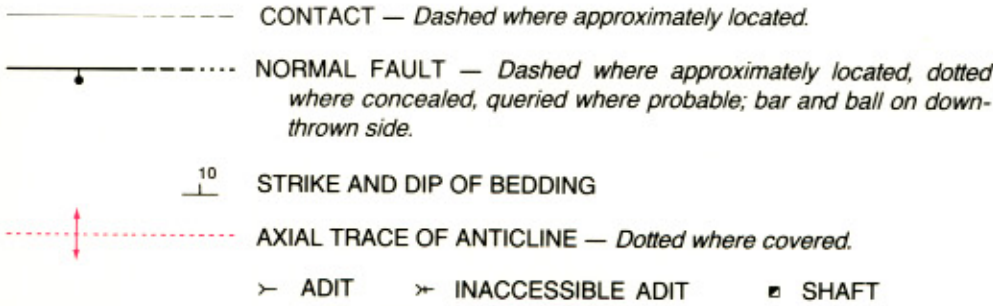


CORRELATION OF MAP UNITS



| FORMATION | SYMBOL | THICKNESS Feet (Meters) | LITHOLOGY |
|------------------------------|--------------------------|----------------------------|-----------|
| WASATCH FORMATION | Twm Tws Twl Twc | 605 (185) | |
| ST. CHARLES FORMATION | Ocs | 980 (299) | |
| NOUNAN DOLOMITE | Cn | 1115 (340) | |
| BLOOMINGTON FORMATION | Cbo | 1305 (398) | |
| BLACKSMITH DOLOMITE | Cb | 460 (140) | |
| UTE FORMATION | Cu | 720 (220) | |
| LANGSTON DOLOMITE | Cla | 420 (128) | |
| GEERTSEN CANYON QUARTZITE | CpCg | 1100+ (335+) | |

MAP SYMBOLS



DESCRIPTION OF MAP UNITS

| | | | |
|------------------|---|------|---|
| Qal | Alluvium — Silt, sand, and gravel in channels and on floodplains. | Tws | Wasatch Formation, sandstone — Moderate red, medium bedded, poorly sorted sandstone; commonly crossbedded. |
| Qac | Colluvial alluvium — Alluvium having a large colluvial component, along low-order ephemeral streams. | Twl | Wasatch Formation, pisolitic limestone — Yellowish brown pisolites in a yellowish gray, sparry matrix. |
| Qcf | Fine colluvium — Fine-grained colluvium; poorly sorted. | Twc | Wasatch Formation, conglomerate — Pebble to small boulder size sandstone and carbonate clasts in a reddish-brown sandstone matrix. |
| Qcg | Gravelly colluvium — Fine-grained colluvium; including cobbles and boulders; poorly sorted. | Ocs | St. Charles Formation — Medium-gray, massive dolomite, dark-gray, thin-bedded limestone, and moderate orange, medium bedded, calcareous sandstone. |
| Qmt | Talus — Boulder-sized rock-fall deposits. | Cn | Nounan Dolomite — Light gray, massive, vuggy dolomite, sandy at top, cherty at base. |
| Qmf | Debris flows — Poorly sorted, angular clasts in a mud matrix. | Cbo | Bloomington Formation — Blue-gray, thin to medium bedded limestone and silty limestone, and olive gray to dusky yellow, laminated, calcareous shale. |
| Qms ₁ | Younger landslides — Continuing, successive landslides, as a result of renewed slope instability. | Cb | Blacksmith Dolomite — Light gray, massive, cliff-forming dolomite, zones of solution breccia common in middle portion. |
| Qms | Slides and slumps — Includes small rotational slumps and large complex slides. | Cu | Ute Formation — Medium to light gray, thin to medium bedded limestone and silty limestone, and dusky yellow, laminated, siliceous shale. Grades into light gray, thick bedded, oolitic limestone towards top. |
| Qsm | Marsh deposits — Organic-rich mud associated with some springs. | Cla | Langston Dolomite — Light gray, tan weathering, thick bedded dolomite. Includes light gray, calcareous shale in upper third. |
| bx | Silicified breccia — Dense, resistant, dark brown, silicified quartzite, altered carbonate rocks, and brecciated jasperoid. | CpCg | Geertsen Canyon Quartzite — Orange-pink to dark olive gray, medium bedded quartzite with occasional pebble lags. |
| Twm | Wasatch Formation, mudstone — Moderate red mudstone, with scattered, small interbeds of sandstone, conglomerate, and pisolitic limestone. | | |

